PALENT COOPERATION TREAT

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

I τ_α.

Commissioner

US Department of Commerce

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

| Date of mailing (day/month/year) 26 January 2001 (26.01.01) | ETATS-UNIS D'AMERIQUE in its capacity as elected Office |
|--|---|
| International application No. PCT/BR00/00068 | Applicant's or agent's file reference |
| International filing date (day/month/year) 21 June 2000 (21.06.00) | Priority date (day/month/year) 22 June 1999 (22.06.99) |
| Applicant NAKAIE, Clovis, Ryuichi et al | L |

| 1. | The designated Office is hereby notified of its election made: |
|----|---|
| | X in the demand filed with the International Preliminary Examining Authority on: |
| | 12 December 2000 (12.12.00) |
| | in a notice effecting later election filed with the International Bureau on: |
| | |
| 2. | The election X was |
| | was not |
| | made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b). |
| | |
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| | |

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Juan Cruz

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



PATENT COOPERAT N TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING AMENDMENTS OF THE CLAIMS

(PCT Rule 62 and Administrative Instructions, Section 417)

То

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24

Arlington, VA 22202 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year) 26 January 2001 (26.01.01)

in its capacity as International Preliminary Examining Authority

International application No. PCT/BR00/00068

International filing date (day/month/year)
21 June 2000 (21.06.00)

Applicant

· 本語がおりはいいからればれる

CONSELHO NACIONAL DE DESENVOLVIMENTO CIENTÍFICO E TECNOLÓGICO - CNPO et al

The International Bureau hereby informs the International Preliminary Examining Authority that no amendments under Article 19 have been received by the International Bureau (Administrative Instructions, Section 417).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Juan Cruz

Facsimile No. (41-22) 740.14.35

Telephone No. (41-22) 338.83.38

TENT COOPERATION TREATER

| | | From t | he INTERNA | TIONAL BU | JREAU |
|--|--|--------------------|--------------------------------|-----------------|--------------------|
| PC | Γ | То: | | | |
| NOTIFICATION OF TOF A CHA (PCT Rule 92) Administrative Instruct Date of mailing (day/month/year) 26 January 2001 (26.01. | bis.1 and tions, Section 422) | Ave Lote SEP | N, Suite 211 70741-901 B | te, Quadra | 507/B, |
| Applicant's or agent's file reference | æ | | IMPORT | ANT NOTI | FICATION |
| | | | | - | |
| International application No. PCT/BR00/00068 | | 1 | nal filing date (dune 2000 (21 | | ar) |
| | | | | | |
| The following indications appe the applicant | ared on record concerning: X the inventor | the ager | ,, <u> </u> | the commo | n representative |
| | | | State of Natio | ı | State of Residence |
| Name and Address NAKAIE, Clovis, Ryuichi | | | BR | ilanty | BR |
| CEP-São Paulo, SP Brazil | | | Telephone No |). | |
| | | | Facsimile No. | | |
| | | | | | |
| | | | Teleprinter N | 0. | |
| 2. The International Bureau hereb | by notifies the applicant that t | he following | change has be | en recorded c | concerning: |
| the person t | he name X the add | dress | the nation | ality [| the residence |
| Name and Address | | | State of Natio | nality | State of Residence |
| NAKAIE, Clovis, Ryuichi Rua 3 de maio 100 | | | BR Telephone No | | BR |
| CEP 04044-020 São Paulo Brazil | o | | relephone No | <i>)</i> . | |
| Didzii | | | Facsimile No. | | |
| | | | 7.1 | | |
| | | | Teleprinter N | J. | |
| 3. Further observations, if necess | ary: | | | | |
| | | | | | |
| 4. A copy of this notification has I | peen sent to: | | ····· | | |
| X the receiving Office | | [| the design | ated Offices of | concerned |
| the International Searching | g Authority | Ī | X the elected | d Offices cond | cerned |
| X the International Prelimina | ry Examining Authority | ĺ | other: | | |
| | | Authorized | officer | | |
| The International Bu 34, chemin des C 1211 Geneva 20, S | olombettes | A4(110)11280 | | an Cruz | |

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

4

TENT COOPERATION TREAT

From the INTERNATIONAL BUREAU PCT NOTIFICATION OF THE RECORDING EURY PEREIRA, Luna-Filho Avenida W3 Norte, Quadra 507/B, **OF A CHANGE** Lote 2 (PCT Rule 92bis.1 and SEPN, Suite 211 Administrative Instructions, Section 422) CEP-70741-901 Brasilia, DF **BRÉSIL** Date of mailing (day/month/year) 26 January 2001 (26.01.01) Applicant's or agent's file reference **IMPORTANT NOTIFICATION** International filing date (day/month/year) International application No. 21 June 2000 (21.06.00) PCT/BR00/00068 1. The following indications appeared on record concerning: the common representative the agent the inventor X the applicant State of Residence State of Nationality Name and Address BR BR TOMINAGA, Mineko Telephone No. São Paulo Brazil Facsimile No. Teleprinter No. 2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning: the nationality the residence Х the address the name the person State of Residence State of Nationality Name and Address BR BR TOMINAGA, Mineko Rua Tabapuã 452, apto. 102 CEP 04533-001 São Paulo Telephone No. Brazil Facsimile No. Teleprinter No. 3. Further observations, if necessary: 4. A copy of this notification has been sent to: the designated Offices concerned the receiving Office the elected Offices concerned the International Searching Authority other: the International Preliminary Examining Authority Authorized officer The International Bureau of WIPO

Form PCT/IB/306 (March 1994)

Facsimile No.: (41-22) 740.14.35

34, chemin des Colombettes

1211 Geneva 20, Switzerland

Juan Cruz

Telephone No.: (41-22) 338.83.38

ATENT COOPERATION TREAD

| | From the II | NTERNATIONAL BU | REAU |
|--|------------------------------|---|--------------------------|
| PCT | То: | | |
| NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) | Avenida Lote 2 SEPN, S | EREIRA, Luna-Filho W3 Norte, Quadra 5 uite 211 41-901 Brasilia, DF | 507/B, |
| 26 January 2001 (26.01.01) | | | |
| Applicant's or agent's file reference | | IMPORTANT NOTIF | ICATION |
| International application No. PCT/BR00/00068 | | iling date (day/month/yea 2000 (21.06.00) | ar) |
| The following indications appeared on record concerning: X the applicant X the inventor | the agent | | n representative |
| Name and Address DE MATTOS PAIVA, Antonio, Cechelli CEP-São Paulo, SP Brazil | | ate of Nationality BR dephone No. | State of Residence BR |
| | Fa | csimile No. | |
| | | eleprinter No. | |
| The International Bureau hereby notifies the applicant that the the person | 1 1 | nge has been recorded of the nationality | the residence |
| Name and Address DE MATTOS PAIVA, Antonio, Cechelli | St | ate of Nationality BR | State of Residence BR |
| Rua 3 de maio 100 CEP 04044-020 São Paulo Brazil | Te | elephone No. | |
| _ · · - · · | Fa | acsimile No. | |
| | To | eleprinter No. | |
| 3. Further observations, if necessary: | | | |
| 4. A copy of this notification has been sent to: | | | |
| X the receiving Office | | the designated Offices | |
| the International Searching Authority X the International Preliminary Examining Authority | | other: | |
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | Authorized off | Juan Cruz | |
| Facsimile No.: (41-22) 740.14.35 | Telephone No | .: (41-22) 338.83.38 | |

Form PCT/IB/306 (March 1994)

003800750

TENT COOPERATION TREAL I

| | From th | e INTERNATIONAL BU | REAU |
|---|------------------------|--|--------------------------|
| PCT | To: | | |
| NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 26 January 2001 (26.01.01) | Aven Lote : SEPN | , Suite 211 70741-901 Brasilia, DF | 507/B, |
| Applicant's or agent's file reference | | IMPORTANT NOTII | FICATION |
| International application No. PCT/BR00/00068 | | nal filing date (day/month/ye une 2000 (21.06.00) | ar) |
| | | | |
| The following indications appeared on record concerning: X the applicant X the inventor | the agen | the commo | n representative |
| Name and Address | | State of Nationality | State of Residence |
| DOS REIS BARBOSA, Simone CEP-São Paulo, SP Brazil | | BR Telephone No. | DN |
| | | Facsimile No. | |
| | | Teleprinter No. | |
| 2. The International Bureau hereby notifies the applicant that the | ne following | change has been recorded | concerning: |
| the person the name X the add | Г | the nationality | the residence |
| Name and Address | | State of Nationality BR | State of Residence BR |
| DOS REIS BARBOSA, Simone Rua 3 de maio 100 CEP 04044-020 São Paulo | | Terephone No. |] 511 |
| Brazil | | Facsimile No. | |
| | | Teleprinter No. | |
| 3. Further observations, if necessary: | | | |
| 3. Further observations, it necessary: | | | |
| 4. A copy of this notification has been sent to: | | | |
| X the receiving Office | | the designated Offices | concerned |
| the International Searching Authority | ļ | X the elected Offices con | cerned |
| X the International Preliminary Examining Authority | | other: | |
| | Authorized | officer | |
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland | | Juan Cruz | |
| Facsimile No.: (41-22) 740.14.35 | Telephone | No.: (41-22) 338.83.38 | |

Form PCT/IB/306 (March 1994)

003800768

TATENT COOPERATION TREAT 1

| | From the IN | ITERNATIONAL BU | REAU |
|--|-------------------|---|--------------------------|
| PCT | To: | · · · · · · · · · · · · · · · · | |
| | 1 | | |
| NOTIFICATION OF THE RECORDING | CUBY DE | DEIDA Luna Ella | |
| OF A CHANGE | | REIRA, Luna-Filho W3 Norte, Quadra ! | 507/R |
| | Lote 2 | WS Norte, Quadra . | J0//b, |
| (PCT Rule 92bis.1 and | SEPN, Su | uite 211 | |
| Administrative Instructions, Section 422) | | 11-901 Brasilia, DF | |
| Date of mailing (day/month/year) | BRÉSIL | | |
| 26 January 2001 (26.01.01) | | | |
| | <u> </u> | | |
| Applicant's or agent's file reference | 11 | MPORTANT NOTIF | CICATION |
| | | | |
| International application No. | | ing date (day/month/yea | ar) |
| PCT/BR00/00068 | 21 June 2 | 2000 (21.06.00) | |
| The following indications appeared on record concerning: | | | |
| X the applicant X the inventor | the agent | the common | representative |
| | | اسبا | , |
| Name and Address | | te of Nationality BR | State of Residence BR |
| MARCHETTO, Reinaldo CEP-São Paulo, SP | | ephone No. | DN |
| Brazil | l reie | priorie No. | |
| | Facs | simile No. | |
| | 1003 | , | |
| | Tele | eprinter No. | |
| | | | |
| 2. The International Bureau hereby notifies the applicant that t | e following chang | ne has been recorded o | oncerning: |
| the person the name X the add | <u> </u> | the nationality | the residence |
| | | | |
| Name and Address | | e of Nationality BR | State of Residence |
| MARCHETTO, Reinaldo Caixa Postal 355 | | ephone No. | DN |
| Araraguara | rele | priorie No. | |
| CEP 14801-970 São Paulo Brazil | Facs | simile No. | |
| | 1.505 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | Tele | eprinter No. | |
| | | • | |
| 3. Further observations, if necessary: | | | |
| 3. Further observations, in necessary. | | | |
| | | | |
| 4. A copy of this notification has been sent to: | | | |
| ▼ the resolution Office | П., | h - d - i d Offi | |
| X the receiving Office | ⊢ | he designated Offices of | |
| the International Searching Authority | ĽĽ t | he elected Offices conce | erned |
| X the International Preliminary Examining Authority | o | other: | |
| | A 1 | | |
| The International Bureau of WIPO | Authorized office | | |
| 34, chemin des Colombettes 1211 Geneva 20, Switzerland | | Juan Cruz | |
| Facsimile No.: (41-22) 740.14.35 | Telephone No.: (4 | 41-22) 338.83.38 | |

Form PCT/IB/306 (March 1994)

PCT

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

From the INTERNATIONAL BUREAU

To:

EURY PEREIRA, Luna-Filho Avenida W3 Norte, Quadra 507/B, Lote 2 SEPN, Suite 211 CEP-70741-901 Brasilia, DF

| Administrative Instructions, Section 422) | CEP-70741-901 Brasilia, DF |
|--|--|
| Date of mailing (day/month/year) | 1 BRÉSIL |
| 26 January 2001 (26.01.01) | |
| Applicant's or agent's file reference | |
| | IMPORTANT NOTIFICATION |
| International application No. | International filing date (day/month/year) |
| PCT/BR00/00068 | 21 June 2000 (21.06.00) |
| 1. The following indications appeared on record concerning: | |
| X the applicant X the inventor | the agent the common representative |
| Name and Address | State of Nationality State of Residence |
| SCHREIER, Shirley | BR BR |
| CEP-São Paulo, SP Brazil | Telephone No. |
| | Facsimile No. |
| | Tassimile 140. |
| | Teleprinter No. |
| | |
| 2. The International Bureau hereby notifies the applicant that the | e following change has been recorded concerning: |
| the person the name X the addr | |
| Name and Address | State of Nationality State of Residence |
| SCHREIER, Shirley Caixa Postal 26077 | BR BR |
| CEP 05599-970 São Paulo Brazil | Telephone No. |
| -: | Facsimile No. |
| | Tudamine No. |
| | Teleprinter No. |
| | |
| 3. Further observations, if necessary: | |
| | |
| A A copy of this positions has been | |
| 4. A copy of this notification has been sent to: X the receiving Office | |
| | the designated Offices concerned |
| the International Searching Authority | the elected Offices concerned |
| X the International Preliminary Examining Authority | other: |
| The International Purceus of Manage | Authorized officer |

Facsimile No.: (41-22) 740.14.35 Form PCT/IB/306 (March 1994)

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

Juan Cruz

Telephone No.: (41-22) 338.83.38

| | - | • | ••• | 2001 | |
|------|---|---|-----|------|--|
| WIPC |) | | | PCT | |

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference NONE | FOR FURTHER ACTION | | ication of Transmittal of International y Examination Report (Form PCT/IPEA/416) |
|--|---|--------------------------------|--|
| International application No. | International filing date (day | /month/year) | Priority date (day/month/year) |
| PCT/BR00/00068 | 21 JUNE 2000 | | 22 JUNE 1999 |
| International Patent Classification (IPC) IPC(7): C07D 207/46, 295/24 and US | or national classification and I S Cl.: 548/528, 531 | PC | |
| Applicant CONSELHO NACIONAL DE DESEN | VOLVIMENTO CIENTIFICO | & E TECHN | oLogico |
| Examining Authority and is | transmitted to the applican | s been prepa t according to | ored by this International Preliminary o Article 36. |
| 2. This REPORT consists of a | total of sheets. | | |
| been amended and are th | tion 607 of the Administrativ | heets containi | cription, claims and/or drawings which have ng rectifications made before this Authority under the PCT). |
| | <u>T</u> | •. | |
| 3. This report contains indication | is relating to the following | items: | |
| I X Basis of the repo | rt | | |
| II Priority | | | |
| III Non-establishmer | nt of report with regard to r | novelty, inven | tive step or industrial applicability |
| IV Lack of unity of | invention | | |
| V X Reasoned statement citations and expla | nt under Article 35(2) with remarks supporting such state | egard to novel | ty, inventive step or industrial applicability; |
| VI Certain documents | cited | | |
| VII Certain defects in t | he international application | | |
| VIII Certain observation | as on the international applica | ation | |
| | | | |
| | • | | |
| | | | |
| | | | |
| | | | |
| Date of submission of the demand | Da | te of completion | on of this report |
| 12 DECEMBER 2000 | | 05 JANUARY | (2001 |
| Name and mailing address of the IPEA | 'US Au | thorized office | 1) Oll thora |
| Commissioner of Patents and Trader Box PCT Washington, D.C. 20231 | | JANE 2. OS | Vertile Mari |
| Facsimile No. (703) 305-3230 | Te | lephone No. | (703)308-1235 |



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/BR00/00068

| I. | Ba | sis of t | he report | | | | |
|----|--------------|-------------|--|-------------------------------------|--|---------------------------|--|
| 1 | With | regard (| o the elements of the internati | onal application: | • | | } |
| 4. | \mathbf{x} | the int | ernational application as o | originally filed | | | , |
| | 므 | | scription: | | | | |
| | X | | 1-8 | | | | , as originally filed |
| | | | NONE | | | | , filed with the demand |
| | | | NONE | | , filed with the lette | er of | |
| | | r-6 | | | | | |
| | \mathbf{x} | the cla | | | | | isinalla Glad |
| | _ | pages | 9 | | | | , as originally filed |
| | | pages | | | , as amended (toget | ner with any sta | tement) under Article 19 |
| | | pages | NONE | <i>c</i> : 1 : 1 | | | , filed with the demand |
| | | pages | NONE | , filed with | the letter of | | |
| | | مام ماء | ovvin aa: | | | | |
| | X | | awings: 10-17 | | | | , as originally filed |
| | | - | NONE | | | | , filed with the demand |
| | | | | | filed with the letter | of | |
| | | Puges | | | | | |
| | \mathbf{x} | the se | quence listing part of the de | escription: | | | |
| | لتنا | pages | NONE | | | | , as originally filed |
| | | nages | NONE | | | | , filed with the demand |
| | | pages | NONE | , | filed with the letter | of | |
| | | the la | | he internations | ıl application (under | Rule 48.3(b)). | nination (under Rules 55.2 and/ |
| 3 | . Wi | th regai | • | r amino acid so out on the bas | equence disclosed in this of the sequence list | the international asting: | application, the international |
| | | | ned in the international a | | | | |
| | | filed | ogether with the internati | onal application | n in computer reada | ible form. | ••• |
| | | furnis | hed subsequently to this A | Authority in w | ritten form. | | |
| | | | hed subsequently to this A | | | | |
| | | The sintern | tatement that the subsequer ational application as filed | ntly furnished w has been furnis | ritten sequence listin hed. | g does not go be | yond the disclosure in the |
| | | The st | atement that the information umished. | recorded in cor | nputer readable form i | is identical to the | writen sequence listing has |
| 4 | 4. X | The a | mendments have resulted | l in the cancell | ation of: | | |
| | | X | the description, pages | NONE | | | |
| | | X | the claims, Nos. | NONE | | | |
| | | X | the drawings, sheets/fig | | | | |
| : | 5. 🗌 | This | report has been drawn as if (| some of) the am | endments had not beer | n made, since they | have been considered to go |
| | in | | ort as "originally filea" ana | iched to the rece | vina Office in response | to an invitation un | der Article 14 are referred to in amendments (Rules 70.16 |
| | **Ar | v renla | r. cement_sheet_containing_sucl | h amendments m | ust be referred to und | ler item 1 and an | nexed to this report. |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

| International application No. | |
|-------------------------------|--|
| PCT/BR00/00068 | |

| | IIII Did III III III III III III III III III I | | | PC1/BR00/00008 | |
|---|--|--|---|---|----------------|
| V. 1 | Reas ned statement under Article 35(2) citations and explanations supporting su | with regard ich stateme | to novelty, inventiv | ve step or industrial applicabil | ity; |
| | statement | | | | |
| | Novelty (N) | Claims | 1-3 | | YES |
| | Novelty (N) | Claims | | | NO |
| | | | | | |
| | Inventive Step (IS) | Claims | | | YES |
| | | Claims | NONE | | NO |
| | | | | | |
| | Industrial Ameliophility (IA) | Claims | 1-3 | | YE |
| | Industrial Applicability (IA) | | | | NO |
| | | 0.10.11.1 | | | |
| T | The applicants claim a spin-probe or spin-label etramethylpyrrolidine-N-oxyl-(9-fluorenylmethorobe or "reporter" compound for chemical and | vloxycarbony | /l)-3-amine-4-carboxyl | ne acid. This compound has will | 5,5- y as a |
| p 1 d | The closest prior art of record is U.S. 3,966,7 determination of spin-labelled compounds (U.S. compounds taught by Goldstein et al. are pheny | 64 to Goldste 5. 3,966,764, vl-propylami | Abstract; col. 86, lin no-crotonamido-, phen | le 50 to col. 87, line 14). The leadingle-propyl-glycinamido-, aminopro | igent |
| p d c p | The closest prior art of record is U.S. 3,966,7 | 64 to Goldste 3. 3,966,764, yl-propylamin entanamido-2 al. neither tea carboxylic aci | Abstract; col. 86, lin no-crotonamido-, phen 1,2,5,5-tetramethylpyraches nor suggests 2,2 d functional groups, n | ne 50 to col. 87, line 149. The reapyl-propyl-glycinamido-, aminopropolidine-1-oxyl compounds (U.S. 5,5-tetramethylpyrrolidine-1-oxyl nor such compounds having a fluor | pyl- |
| p d c p 3 | The closest prior art of record is U.S. 3,966,7 determination of spin-labelled compounds (U.S. compounds taught by Goldstein et al. are pheny phenoxy-acetamido- and phenyl-propylamino-pos,966,764, col. 88, lines 4-15). Goldstein et a derivative compounds having both amino and comoiety. Thus, the instant claims 1-3 are found | 764 to Goldste 5. 3,966,764, yl-propylamin entanamido-2 al. neither tea earboxylic aci d to be novel | Abstract; col. 86, lin no-crotonamido-, phen 1,2,5,5-tetramethylpyraches nor suggests 2,2 d functional groups, n | ne 50 to col. 87, line 149. The reapyl-propyl-glycinamido-, aminopropolidine-1-oxyl compounds (U.S. 5,5-tetramethylpyrrolidine-1-oxyl nor such compounds having a fluor | pyl- |
| p d c p 3 | The closest prior art of record is U.S. 3,966,7 determination of spin-labelled compounds (U.S. compounds taught by Goldstein et al. are pheny obenoxy-acetamido- and phenyl-propylamino-ping,966,764, col. 88, lines 4-15). Goldstein et a derivative compounds having both amino and control of the con | 764 to Goldste 5. 3,966,764, yl-propylamin entanamido-2 al. neither tea earboxylic aci d to be novel | Abstract; col. 86, lin no-crotonamido-, phen 1,2,5,5-tetramethylpyraches nor suggests 2,2 d functional groups, n | ne 50 to col. 87, line 149. The reapyl-propyl-glycinamido-, aminopropolidine-1-oxyl compounds (U.S. 5,5-tetramethylpyrrolidine-1-oxyl nor such compounds having a fluor | pyl- |
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| P d c p 3 d d c | The closest prior art of record is U.S. 3,966,7 determination of spin-labelled compounds (U.S. compounds taught by Goldstein et al. are phenyphenoxy-acetamido- and phenyl-propylamino-pa,966,764, col. 88, lines 4-15). Goldstein et a derivative compounds having both amino and comoiety. Thus, the instant claims 1-3 are found | 764 to Goldste 5. 3,966,764, yl-propylamin entanamido-2 al. neither tea earboxylic aci d to be novel | Abstract; col. 86, lin no-crotonamido-, phen 1,2,5,5-tetramethylpyraches nor suggests 2,2 d functional groups, n | ne 50 to col. 87, line 149. The reapyl-propyl-glycinamido-, aminopropolidine-1-oxyl compounds (U.S. 5,5-tetramethylpyrrolidine-1-oxyl nor such compounds having a fluor | pyl- |
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

| International application No. |
|-------------------------------|
| PCT/BR00/00068 |

| Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient) | | | | |
|--|----------|--|--|--|
| Continuation of: Boxes I - VIII | Sheet 10 | | | |
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| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :C07D, 207/46, 295/24 US CL -: 548/528, 531 According to International Patent Classification (IPC) or to both national classification and IPC | | | | | |
|---|--|--|--|--|--|
| B. FIELDS SEARCHED | | | | | |
| Minimum documentation searched (classification system followed U.S.: 548/528, 531 | d by classification symbols) | | | | |
| Documentation searched other than minimum documentation to the NONE | extent that such documents are included in the fields searched | | | | |
| Electronic data base consulted during the international search (na CAS ONLINE, CAPLUS, BEILSTEIN, EAST, WEST search terms: tetramethylpyrrolidin?, amin?, carboxylic(L)aci | | | | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category* Citation of document, with indication, where a | ppropriate, of the relevant passages Relevant to claim No. | | | | |
| A US 3,966,764 A (GOLDSTEIN et a document. | al) 29 June 1976, see entire 1-3 | | | | |
| | | | | | |
| Purther documents are listed in the continuation of Box C. Special categories of cited documents: 'A" document defining the general state of the art which is not considered to be of particular relevance 'E" earlier document published on or after the international filling date 'L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report | | | | | |
| Date of the actual completion of the international search 16 OCTOBER 2000 Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230 Date of mailing of the international search report O 4 DEC 2000 Authorized officer JANE C. OSWECK Telephone No. (703)308-1235 | | | | | |

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

EURY PEREIRA, Luna-Filho Avenida W3 Norte, Quadra 507/B, Lote 2 SEPN, Suite 211 CEP-70741-901 Brasilia, DF BRÉSIL

Date of mailing (day/month/year)
28 December 2000 (28.12.00)

Applicant's or agent's file reference

IMPORTANT NOTICE

International application No. PCT/BR00/00068

International filing date (day/month/year) 21 June 2000 (21.06.00)

Priority date (day/month/year) 22 June 1999 (22.06.99)

Applicant

CONSELHO NACIONAL DE DESENVOLVIMENTO CIENTÍFICO E TECNOLÓGICO - CNPQ et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

ÉP,JP

ζ

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1 (a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 28 December 2000 (28.12.00) under No. WO 00/78715

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

Th International Bureau of WIPO 34, ch min des Colombettes 1211 Geneva 20, Switz rland Authorized officer

J. Zahra

Facsimile No. (41-22) 740.14.35

T leph ne N . (41-22) 338.83.38

C ntinuation of F rm PCT/IB/308

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

| Date of mailing (day/m nth/year) | IMPORTANT NOTICE |
|---|---|
| 28 December 2000 (28.12.00) | |
| Applicant's or agent's file reference | International application No. PCT/BR00/00068 |
| | 107/5/100/00000 |
| The applicant is hereby notified that, at the time of mendments under Article 19 has not yet expired an eclaration that the applicant does not wish to make | of establishment of this Notice, the time limit under Rule 46.1 for making at the International Bureau had received neither such amendments nor a amendments. |
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PATENT COOPERATION TREATY

| rom the VTERNATIONAL PRELIMINARY EXAMINING AUTHORIT To: | ry . | PCT | 004430/01-8 |
|--|---|--|-----------------------------|
| EURY PEREIRA, LUNA-FILHO AVENIDA W 3 NORTE, QUADRA 507/B, LOTE 2 SEPN SUITE 211 BRASILIA, DISTRITO FEDERA, BRAZIL 70741 -901 | THE PRE | ON CONCERNING PAYMENT LIMINARY EXAMINATION ND HANDLING FEES | OF |
| | | CT Rules 57 and 58 and ative Instructions, Section 615) | · - · |
| | Date of mailing (day/month/year) | 03 JAN 2001 | . , |
| Applicant's or agent's file reference | PAYMENT DUE | see item 3 for time limit | · |
| International application No. PCT/BR00/00068 | International filing dat (day/month/year) | e 21 JUN 00 | |
| Applicant CONSELHO NACIONAL DE DESENVOLVIMENTO | CIENTIFICO & E TE | CHNOLOGICO | |
| | | | |
| 1. The applicant is hereby notified that this International Pre- | | | |
| the payment of all the prescribed fees, and | | ich will be refunded in due course | |
| no or insufficient payment of the prescribed fees an under item 2, within the time limit indicated under item 2. | id the applicant is hereby in item 3. | vited to pay the balance due, as s | ummarized |
| 2. Fees and payment calculation: | | | |
| Preliminary 490.00 P | | | <i>;</i> |
| Handling fee* +137.00 [H] | | | |
| Total fees payable = 627.00 | 0.00 | =627.00 | |
| | Amount paid | Balance | |
| * Applicants from certain States are entitled to a reduction so entitled, the amount to be entered at H is 25% of the har Form, PCT/IPEA/401, for details. | n of 75% of the handling fee ndling fee. See Notes to the | . Where the applicant is (or all app Fee Calculation Sheet annexed to | olicants are) the Demand |
| 3. Time limit for payment and amount payable (Rules 5 | 57.3 and 58.1(b)): | | l |
| within ONE MONTH from the date on which the of the amount applicable on that date of submittal: | demand was submitted (se | e below), in which case the amou | nt payable is |
| within ONE MONTH from the date of receipt (see b to this Authority under Rule 59.3), in which case | below) of the demand by the the amount payable is the MBER 2000 | s Authority (where the demand wa amount applicable on that date o | stransmitted of receipt: |
| | | | |
| Name and mailing address of the IPEA/ Assistant Commissioner for Patent Box PCT Washington, D.C. 20231 Atm: RO/US | Authorized officer RAYNA LOVI Telephone No. 703 | 1 Low Or | |

Form PCT/IPEA/403 (July 1998)

PATENT COOPERATION TREATY

| From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORI' | Γ Υ . | · | | | |
|---|---|---|--|--|--|
| To: EURY PEREIRA, LUNA-FILHO AVENIDA W 3 NORTE, QUADRA 507/B, LOTE 2 SEPN SUITE 211 BRASILIA, DISTRITO FEDERA, BRAZIL 70741 | PCT NOTIFICATION OF RECEIPT OF DEMAND BY COMPETENT INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY | | | | |
| -901 | (PCT Rules | 59.3(e) and 61.1(b), first sentence trative Instructions, Section 601(a)) | | | |
| | Date of mailing (day/month/year, | 1002 NAŁ 80 | | | |
| Applicant's or agent's file reference | IMP | ORTANT NOTIFICATION | | | |
| International application No. International filing date PCT/BR00/00068 21 JU | | Priority date (day/month/year) 22 JUN 99 | | | |
| Applicant CONSELHO NACIONAL DE DESENVOLVIMENTO | | | | | |
| The applicant is hereby notified that this International Prelof receipt of the demand for international preliminary exam 12 DECEMB | iminary Examining Authination of the internation | nal application: | | | |
| the actual date of receipt of the demand on be | | | | | |
| 3. ATTENTION: That date of receipt is AFTER the expiration of 19 months from the priority date. Consequently, the election(s) made in the demand does (do) not have the effect of postponing the entry into the national phase until 30 months from the priority date (or later in some Offices) (Article 39(1)). Therefore, the acts for entry into the national phase must be performed within 20 months from the priority date (or later in some Offices) (Article 22). For details, see the PCT Applicant's Guide, Volume II. (If applicable) This notification confirms the information given by telephone, facsimile transmission or in person on: | | | | | |
| 4. Only where paragraph 3 applies, a copy of this notification has been sent to the International Bureau. | | | | | |
| Name and mailing address of the IPEA/ Assistant Commissioner for Patent Box PCT Washington, D.C. 20231 Atm:RO/US Facsimile No. 703-305-3230 Form PCT/IPEA/402 (July 1998) Authorized officer RAYNA LOVER Telephone Fo. 703 308-8297 | | | | | |



Officio nº. 0011/2001

Brasília, DF, January 24th, 2001

ASSISTANT COMMISIONER OF PATENTS

To the attention of Ms. Carol Bidwell PCT Special Program Officer Supervisor USPTO Crystal City Box PCT Washington, D.C. 202231

Facsimile 00 23 1 703 305 2919

Re: International Appln. No. PCT/BR00/00068 of 21st June, 2000
"Synthesis of a novel paramagnetic aminoacid derivative (EPM-5) for labelling different macromolecules and systems of biological interest"

Dear Sirs.

I am informing you that we have already effected payment of the preliminary examination and handling fees amounting to US\$627.00 (six hundred and twenty seven dollars), through our Bankers at New York, relating to Chapter II proceedings for this PCT internacional application.

We apologize for the delay incurred and hope that we could proceed with this PCT patent application in good order.

Failure on our part in effecting regular payment within 30 (thirty) days from the date of receipt of th Chapter II Demand (12 December 2000) by the USPTO, resulted from Christmas' Hollydays and New Eve's leaves causing an unusual backlog of work in our Accountant's office and loss of internal memoranda requesting timely payment.

Find enclosed herewith copy of instructions already sent to our Bankers on this date.

Please, keep us informed of next procedures to perform in order to not allow this application to be abandoned.

Faithfully Yours,

Eury P Luna Filho

Encls. 01 (one)



CNPq-CONSELHO NACIONAL DE DESENV. CIENTÍFICO E TECNOLÓGICO

CAIXA POSTAL/P.O. BOX 6186 – BRASÍLIA/DF 70740910 BRASIL FONES/PHONE: (061) 348-9027 – 348-9028

FAX N.°: (061) 272-1560 M E N S A G E M // MESA GE

DE/FROM: GILBERTO PEREIRA XAVIER

PARA/TO: BANCO DO BRASIL AGÊNCIA NEW YORK

DATA: 23/01/01

ATT. Sr.* CARLA MELLO

CHAVE: 46968 2001ADC00004

}

Solicitamos a V.S. no sentido de que seja efetuado o pagamento em favor do beneficiário ASSISTANT COMMISIONER OF PATENTES, no valor de USS 627,00 (seiscentos e vinte e sete dólares), referente a pagamento de exame preliminar internacional (PCT, artigo 33) pedido internacional de patente PCT/BR00/00068, d 21 de junho de 2000, conforme OF.PROJUR s/n°/2000 de 12.12.2000.

Favor debitar a nossa conta corrente número 841040115, existente nessa Agência em nome do CNPq.

INFORMAÇÕES COMPLEMENTARES: CRISTAL CITY BOX PCT WASHINGTON DC 202231 USA

Atenciosamonte,

GILBERTQ PEREARAXAVIER

Coordenador de Gestão Orçamentária e Financeira

FERNANDO AUGUSTO BERNARDES NORMANDO Coordenador Geral de Administração e Finanças

NL00007

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From the INTERNATIONAL BUREAU

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INFORMATION CONCERNING ELECTED OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

To:

EURY PEREIRA, Luna-Filho Avenida W3 Norte, Quadra 507/B, Lote 2 SEPN, Suite 211 CEP-70741-901 Brasilia, DF BRÉSIL

Date of mailing (day/month/year)

26 January 2001 (26.01.01)

Applicant's or agent's file reference

IMPORTANT INFORMATION

International application No. PCT/BR00/00068

International filing date (day/month/year)

21 June 2000 (21.06.00)

Priority date (day/month/year)
22 June 1999 (22.06.99)

Applicant

CONSELHO NACIONAL DE DESENVOLVIMENTO CIENTÍFICO E TECNOLÓGICO - CNPQ et al

 The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

EP:AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE National:JP,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

None

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, se Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

Th International Bureau of WIPO 34, chemin des Colombettes 1211 G neva 20, Switzerland Authorized officer:

Juan Cruz

Telephone No. (41-22) 338.83.38



From the INTERNATIONAL SEARCHING AUTHORITY

| To: | EURY PEREIRA, LUNA-FILHO |
|-----|--|
| | AVENIDA W3 NORTE, QUADRA 507/B, LOTE 2 |
| | SEPN SUITE 211 |
| | BRASILIA, DISTRITO FEDERA, BRAZIL 70741-90 |

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| BRASILIA, DISTRITO FEDERA, BRAZIL 70741-901 | NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT | | | |
|--|--|--|--|--|
| • | OR THE DECLARATION | | | |
| | (PCT Rule 44.1) | | | |
| | Date of Mailing (day/month/year) 04 DEC 2000 | | | |
| Applicant's or agent's file reference O | FOR FURTHER ACTION See paragraphs 1 and 4 below | | | |
| International application No. | International filing date (day/month/year) | | | |
| PCT/BR00/00068 | 21 JUNE 2000 | | | |
| Applicant CONSELHO NACIONAL DE DESENVOLVIMENTO CIEN | TTIFICO & E TECNOLOGICO | | | |
| 1. X The applicant is hereby notified that the international | l search report has been established and is transmitted herewith. | | | |
| Filing of amendments and statement under Artic The applicant is entitled, if he so wishes, to amend | the 19: the claims of the international application (see Rule 46): | | | |
| When? The time limit for filing such amendment international search report; however, for | nents is normally 2 months from the date of transmittal of the r more details, see the notes on the accompanying sheet. | | | |
| Where? Directly to the International Bureau of V | WIPO | | | |
| 34, chemin des Colombe 1211 Geneva 20, Switze Facsimile No.: (41-22) | rland | | | |
| For more detailed instructions, see the notes or | n the accompanying sheet. | | | |
| The applicant is hereby notified that no international Article 17(2)(a) to that effect is transmitted herewith | l search report will be established and that the declaration under h. | | | |
| 3. With regard to the protest against payment of (an |) additional fee(s) under Rule 40.2, the applicant is notified that: | | | |
| the protest together with the decision thereon happlicant's request to forward the texts of both | has been transmitted to the International Bureau together with the hather than the decision thereon to the designated Offices. | | | |
| no decision has been made yet on the protest; | the applicant will be notified as soon as a decision is made. | | | |
| 4. Further action(s): The applicant is reminded of the fo | llowing: | | | |
| Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication. | | | | |
| Within 19 months from the priority date, a demand for in wishes to postpone the entry into the national phase un | nternational preliminary examination must be filed if the applicant til 30 months from the priority date (in some Offices even later). | | | |
| Within 20 months from the priority date, the applicant m before all designated Offices which have not been elect priority date or could not be elected because they are | nust perform the prescribed acts for entry into the national phase ted in the demand or in a later election within 19 months from the not bound by Chapter II. | | | |
| Name and mailing address of the ISA/IIS | Authorized officer | | | |

Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

Facsimile No. (703) 305-3230

JANE C. OSWECKI

(703)308-1235 Telephone No.

(See notes on accompanying sheet)

Form PCT/ISA/220 (July 1998) *



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference O | FOR FURTHER ACTION | see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. | | | | |
|--|--|---|--|--|--|--|
| International application No. | International filing dat | e (day/month/year) | (Earliest) Priority Date (day/month/year) | | | |
| PCT/BR00/00068 | 21 JUNE 2000 | | 22 JUNE 1999 | | | |
| Applicant CONSELHO NACIONAL DE DESEN | IVOLVIMENTO CIENT | IFICO & E TECNO | Logico | | | |
| according to Article 18. A copy is being | This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. | | | | | |
| This international search report consists X It is also accompanied by a companied by a companie | | | eport. | | | |
| 1. Basis of the report | | | | | | |
| a. With regard to the language, the language in which it was filed. | unless otherwise indicated | l under this item. | sis of the international application in the | | | |
| b. With regard to any nucleotide was carried out on the basis of | | nce disclosed in the in | nternational application, the international search | | | |
| contained in the internation | al application in written f | orm. | | | | |
| filed together with the inter | national application in co | mputer readable form | n. | | | |
| furnished subsequently to the | furnished subsequently to this Authority in written form. | | | | | |
| furnished subsequently to the | nis Authority in computer | readable form. | | | | |
| | | sequence listing does | not go beyond the disclosure in the | | | |
| international application as the statement that the inform furnished. | | readable form is iden | ntical to the written sequence listing has b een | | | |
| 2. Certain claims were found | d unsearchable (See Box | · I). | | | | |
| 3. Unity of invention is lack | ing (See Box II). | | | | | |
| 4. With regard to the title, | | | | | | |
| the text is approved as subr | nitted by the applicant. | | | | | |
| X the text has been established | d by this Authority to rea | d as follows: | | | | |
| | | | ACID DERIVATIVE (EPM-5) FOR LECULES | | | |
| 5. With regard to the abstract, | | | • | | | |
| the text is approved as subr | • • • | | | | | |
| x the text has been established Box III. The applicant may search report, submit comm | within one month from the | (b), by this Authority he date of mailing of | y as it appears in this international | | | |
| 6. The figure of the drawings to be published with the abstract is Figure No. 1 | | | | | | |
| X as suggested by the applica | nt. | | None of the figures. | | | |
| because the applicant failed | to suggest a figure. | | | | | |
| because this figure better of | haracterizes the invention | | | | | |

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present invention refers to the synthesis and application of 2,2,5,5-tetramethylpyrrolidine-

N-oxyl-(9-fluorenylmethyloxycarbonyl)-3-amine-4-carboxylic acid, a novel paramagnetic (spin

label) amino acid derivative denominated as Fmoc-POAC whose structure is seen in Figure 1. Fmoc-POAC can be coupled to peptide sequences and other systems. It can be inserted

anywhere in a peptide segment, even at an internal position, after removal of its temporary amine protecting group, Fmoc. Owing to its pyrrolidine structure, this molecule may induce differentiated conformations if compared with the normal alpha-amino acids, thus becoming a valuable probe for structural-biological activity of certain peptides. The POAC-angiotensin II analogue was synthesized as a model according to the use of the chemical derivative.

| A. CLA | A. CLASSIFICATION OF SUBJECT MATTER | | | | | |
|--------------------|--|---|-----------------------------|--|--|--|
| 1 ' ' | IPC(7) :C07D 207/46, 295/24 US CL :548/528, 531 | | | | | |
| 1 | o International Patent Classification (IPC) or to both | national classification and IPC | | | | |
| B. FIEL | DS SEARCHED | | , | | | |
| Minimum d | ocumentation searched (classification system followe | d by classification symbols) | | | | |
| U.S. : | 548/528, 531 | | | | | |
| Documental NONE | ion searched other than minimum documentation to the | extent that such documents are included i | n the fields searched | | | |
| CAS ON | data base consulted during the international search (nature of the consulted during the consulted duri | - | search terms used) | | | |
| C. DOC | UMENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category* | Citation of document, with indication, where a | ppropriate, of the relevant passages | Relevant to claim No. | | | |
| A | US 3,966,764 A (GOLDSTEIN et a document. | al) 29 June 1976, see entire | 1-3 | | | |
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| Purtl | ner documents are listed in the continuation of Box C | . See patent family annex. | | | | |
| • Sp | ecial categories of cited documents: | "T" later document published after the inte date and not in conflict with the appli | | | | |
| | cument defining the general state of the art which is not considered be of particular relevance | the principle or theory underlying the | | | | |
| 1 | rlier document published on or after the international filing date cument which may throw doubts on priority claim(s) or which is | "X" document of particular relevance; the considered novel or cannot be consider when the document is taken alone | | | | |
| | ed to establish the publication date of another citation or other ecial reason (as specified) | "Y" document of particular relevance; the considered to involve an inventive | | | | |
| | cument referring to an oral disclosure, use, exhibition or other cans | combined with one or more other such being obvious to a person skilled in th | documents, such combination | | | |
| | cument published prior to the international filing date but later than priority date claimed | "&" document member of the same patent | | | | |
| Date of the | actual completion of the international search | Date of mailing of the international sea | rch report | | | |
| 16 OCTC | DBER 2000 | 04 DEC 2000 | | | | |
| | nailing address of the ISA/US oner of Patents and Trademarks | Authorized officer JANE C. OSWECK | Deula | | | |
| Washingto | n, D.C. 2023 I | JANE C. OSWECKI | $U^{*}(f)Uf$ | | | |